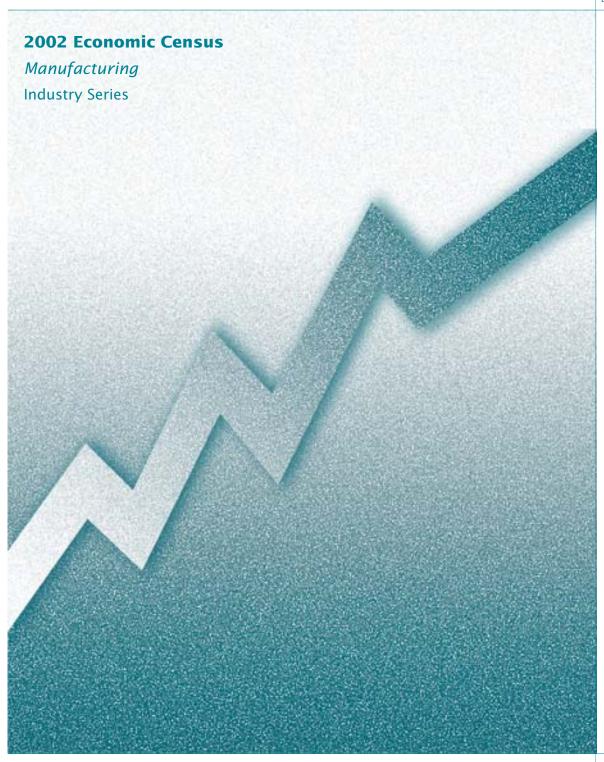
Secondary Smelting and Alloying of Aluminum: 2002

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Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331314, Secondary smelting and alloying											
of aluminum2002	127	150	6 071	260 520	4 351	9 419		753 398	3 039 918	3 814 425	r68 354
2001	N	N	7 308		5 504	11 115		742 090	2 565 895	3 325 045	58 871
2000	N	N	7 634	263 449	5 800	11 789	177 705	799 625	2 931 930	3 744 074	113 170
1999	N	N	7 380	252 856	5 678	12 069	167 914	803 893	2 792 435	3 577 417	103 742
1998	N	N	6 918	237 122	5 391	11 996	161 364	873 707	2 698 716	3 566 237	66 341
1997	87	109	6 614	226 469	5 036	10 930	149 770	796 535	2 799 262	3 595 436	86 449

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
331314, Secondary smelting and alloying of aluminum												
United States. California Florida Illinois Indiana Michigan Ohio Pennsylvania Tennessee	1 - - -	150 17 5 12 12 11 10 6 8	76 8 1 5 6 8 5 4 8	6 071 621 160 373 721 530 425 129 714	260 520 24 665 6 041 15 452 35 979 22 340 18 139 5 255 29 429	4 351 439 123 269 501 400 335 78 448	9 419 870 246 595 1 106 940 772 177 1 012	164 542 14 587 3 973 9 421 22 191 14 255 12 125 2 648 16 851	753 398 73 418 6 867 32 057 96 172 90 404 57 496 16 397 101 684	3 039 918 196 538 44 000 165 682 328 008 292 408 150 949 124 738 305 627	3 814 425 267 955 50 867 196 853 420 534 383 347 210 225 141 849 406 190	r68 354 r11 245 r891 r2 004 r10 787 r4 952 r4 294 r1 196 r8 355

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331314, Secondary smelting and alloying of aluminum	
Companies ¹	127
All establishments ²	150 74 59 17
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	6 071 336 929 260 520 76 409
Production workers, average for year	4 351 4 415 4 417 4 288 4 285
Production worker hours	9 419 164 542
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	3 039 918 2 663 295 219 946 80 166 50 168 26 343
Quantity of electricity purchased for heat and power	1 349 188 S
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	3 814 425 3 419 577 48 180 346 668 230 178 113 353 3 137
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	99 3 499 330 3 419 577 79 753
Coverage ratiopercent	98
Value added	753 398
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	287 663 143 213 32 862 111 588
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	255 965 134 837 20 129 100 999
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	1 156 987 68 354 8 278 60 076 1 148 3 597 55 331 43 447 1 181 894
Depreciation charges during year	'74 918
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	24 016 8 800 15 216
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	131 293 81 37 905 1 538 2 861 737 349 380 11 437 3 861 3 805 68 420

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pi	roduction worke	ers		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331314, Secondary smelting and alloying of aluminum											
All establishments	-	150	6 071	260 520	4 351	9 419	164 542	753 398	3 039 918	3 814 425	r68 354
1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees 2,500 employees	5 3 - - - -	43 15 16 30 29 16 1 -	c 97 225 1 021 2 075 2 260 e - -	D 4 062 9 495 40 334 82 247 101 134 D - -	D 75 180 756 1 472 1 619 D - -	D 154 384 1 645 3 141 3 527 D - -	D 2 847 6 562 25 499 48 794 67 514 D - -	5 265 29 784 124 616 232 185 309 961 D - -	D 29 627 76 021 379 617 1 098 270 1 269 779 D — —	D 34 949 105 738 511 641 1 334 748 1 590 747 D	D 648 11 439 19 401 128 749 122 164 D - -
Administrative records ⁴	4	49	276	10 919	211	443	7 135	15 978	101 836	117 787	r2 063

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
		All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331314	Secondary smelting and alloying of aluminum	150	6 071	260 520	4 351	9 419	164 542	753 398	3 039 918	3 814 425	'68 354
3313142 3313145	Aluminum ingot, including billet, made by secondary smelters Aluminum and aluminum-base alloy	65	4 505	191 259	3 273	7 185	121 695	631 596	2 540 550	3 166 423	r48 608
	powders, paste, and flakes from purchased aluminum	19	1 012	48 345	673	1 379	29 692	91 033	289 102	406 225	r15 927

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product shipments		
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
331314	Secondary smelting and alloying of aluminum	N N	X	X	3 499 330 3 357 627	
3313142	Aluminum ingot, including billet, made by secondary smelters	N N	X	X	2 952 464 N	
33131421	Aluminum ingot, including billet, made by secondary 2002. smelters 2002.	N N	X	X	2 952 464 N	
3313142100	Aluminum ingot, including billet, made by secondary smelters ¹	50 N	S N	S N	2 952 464 N	
3313145	Aluminum and aluminum-base alloy powders, paste, and flakes 2002. from purchased aluminum 1997.	N N	X X	X X	381 083 194 538	
33131451	Aluminum and aluminum-base alloy powders, paste, and flakes from purchased aluminum	N N	X	X X	381 083 194 538	
3313145100	Aluminum and aluminum-base alloy powders, paste, and flakes from purchased aluminum	20 16	X	S S	381 083 194 538	
331314W	Secondary smelting and alloying of aluminum, nsk, total	N N	X	X X	165 783 73 017	
331314WY	Secondary smelting and alloying of aluminum, nsk, total	N N	X X	x x	165 783 73 017	
331314WYWW	Secondary smelting and alloying of aluminum, nsk, for nonadministrative-record establishments	N N	X	X	89 681 73 017	
331314WYWY	Secondary smelting and alloying of aluminum, nsk, for administrative-record establishments	N N	X X	X	76 102 -	

¹This product code is primary to more than one industry. See industries 331312 and 331319, product codes 3313122100 and 331319D100.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3313142	Aluminum ingot, including billet, made by secondary smelters	
	United States 2002. California 1997. California 2002. Illinois 1997. Indiana 2002. Indiana 2002. Michigan 2002. Ohio 1997. Tennessee 1997.	2 952 464 N 199 497 N 134 262 N 348 982 N 304 245 N 161 768 N 389 148
3313145	Aluminum and aluminum-base alloy powders, paste, and flakes from purchased aluminum United States. 2002. 1997. California 2002. 1997.	381 083 194 538 18 106 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331314	Secondary smelting and alloying of aluminum		
00900001 33131209 33100009	Total materials	X X S 61 590.0 X X	2 663 295 2 613 093 590 837 284 026 88 595 166 064
00190020 00190052 00970099 00971000	Aluminum and aluminum-base alloy scrap (excluding home scrap)	q1 683.0 1 290.7 X X X X X X X	1 641 264 1 678 866 11 373 261 695 210 267 221 739 120 959 703

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.